CHAPTER 4

POINT AND NONPOINT SOURCE CHARACTERIZATION OF THE OBEY RIVER WATERSHED

4.1. BACKGROUND. This chapter is organized by HUC-12 subwatershed, and the description of each subwatershed is divided into four parts:

i. General description of the subwatershed
ii. Description of point source contributions
ii.a. Description of facilities discharging to water bodies listed on the 2004 303(d) list
iii. Description of nonpoint source contributions

The Tennessee portion of the Obey River Watershed (HUC 05130105) has been delineated into five HUC 10 (10-digit) subwatersheds, each of which is composed of one or more HUC-12 subwatersheds.

Information for this chapter was obtained from databases maintained by the Division of Water Pollution Control or provided in the WCS (Watershed Characterization System) data set. The WCS used was version 2.0 (developed by Tetra Tech, Inc for EPA Region 4) released in 2003.

WCS integrates with ArcView® v3.x and Spatial Analyst® v1.1 to analyze user-delineated (sub)watersheds based on hydrologically connected water bodies. Reports are generated by integrating WCS with Microsoft® Word. Land Use/Land Cover information from 1992 MRLC (Multi-Resolution Land Cover) data are calculated based on the proportion of county-based land use/land cover in user-delineated (sub)watersheds. Nonpoint source data in WCS are based on agricultural census data collected 1992–1998; nonpoint source data were reviewed by Tennessee NRCS staff.

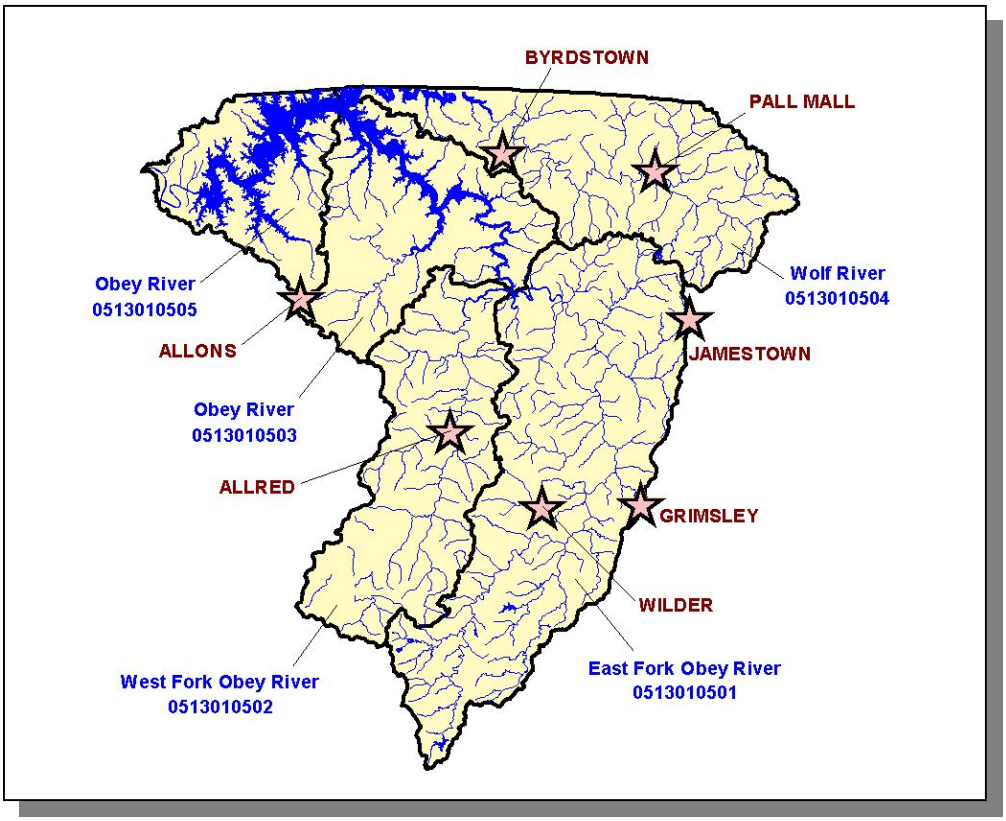

Figure 4-1. The Tennessee Portion of the Obey River Watershed is Composed of Five USGS-Delineated Subwatersheds (10-Digit Subwatersheds). *Locations of Allons, Allred, Byrdstown, Grimsley, Jamestown, Pall Mall, and Wilder are shown for reference.*

4.2. CHARACTERIZATION OF HUC-10 SUBWATERSHEDS. The Watershed Characterization System (WCS) software and data sets provided by EPA Region IV were used to characterize each subwatershed in the Tennessee portion of the Obey River Watershed.

HUC-10	HUC-12
0513010501	051301050101 (East Fork Obey River)
	051301050102 (East Fork Obey River)
	051301050103 (Hurricane Creek)
	051301050104 (East Fork Obey River)
	051301050105 Piney Creek)
	051301050106 (East Fork Obey River)
	051301050107 (Rockcastle Creek)
	051301050108 (Poplar Creek)
0513010502	051301050201 (West Fork Obey River)
	051301050202 (West Fork Obey River)
	051301050203 (West Fork Obey River)
0513010503	051301050301 (Obey River)
	051301050302 (Eagle Creek)
	051301050303 (Obey River)
0513010504	051301050401 (Wolf River)
	051301050402 (Rotten Fork Wolf River)
	051301050403 (Wolf River)
	051301050404 (Dale Hollow Lake)
	051301050405 (Spring Creek)
0513010505	051301050501 (Dale Hollow Lake)
	051301050502 (Sulpher Creek)
	051301050503 (Mitchell Creek)
	051301050504 (Obey River)

Table 4-1. HUC-12 Drainage Areas are Nested Within HUC-10 Drainages. *NRCS worked with USGS to delineate the HUC-10 and HUC-12 drainage boundaries.*